Illnesses and Injuries Reported by California Physicians¹ Associated With² Pesticide Exposure Summarized by Pesticide(s) and Type of Illness 2000

Pesticide ³	Systemic/ Respiratory ⁴		Topical ⁴		TOTAL			
	Definite/	Possible	Definite/	Possible	Definite/	Possible		
	Probable		Probable		Probable			
Organophosphates								
Acephate	1	1	0	0	1	1		
Chlorpyrifos	11	24	4	1	15	25		
Diazinon	17	2	1	0	18	2		
Dimethoate	57	1	2	0	59	1		
Disulfoton	1	0	0	0	1	0		
Fenamiphos	0	1	0	0	0	1		
Malathion	17	2	2	0	19	2		
Naled	5	0	0	0	5	0		
Sulfotep	0	6	0	0	0	6		
N-Methyl Carbamates	_							
Aldicarb	0	1	0	1	0	2		
Carbaryl	2	0	0	0	2	0		
Methomyl	1	1	1	0	2	1		
Propoxur	1	0	0	0	1	0		
Pyrethrins and Pyrethroids								
Allethrin	1	0	0	0	1	0		
Bifenthrin	0	1	0	0	0	1		
Cyfluthrin	1	1	0	1	1	2		
Cyhalothrin	3	2	0	0	3	2		
Cypermethrin	11	1	2	0	13	1		
Deltamethrin	0	0	1	0	1	0		
Esfenvalerate	1	2	1	1	2	3		
Permethrin	6	1	0	0	6	1		
Resmethrin	24	0	0	1	24	1		
Tralomethrin	2	0	0	0	2	0		
Organochlorines								
Chlordane	1	0	0	0	1	0		
Lindane	1	0	0	0	1	0		
Other Pesticides	_							
Aluminum Phosphide	2	0	0	0	2	0		
Arsenic Trioxide	1	0	0	0	1	0		
Azoxystrobin	1	0	0	0	1	0		

PISP 2000: Summary of Cases by Pesticide and by Type of Illness- Page 1

FLEX YOUR POWER! The energy challenge facing California is real! Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy cost, see our Web site at www.cdpr.ca.gov.

Pesticide ³	Systemic/ Respiratory ⁴		Topical ⁴		TOTAL	
	Definite/ Probable	Possible	Definite/ Probable	Possible	Definite/ Probable	Possible
Benomyl	1	2	0	2	1	4
Boric Acid	2	1	0	0	2	1
Brodifacoum	1	0	0	0	1	0
Bromadiolone	1	0	0	0	1	0
Bromoxynil	0	0	1	0	1	0
Bt (Berliner) Aizawai	0	0	0	1	0	1
Serotype H-7						
Butyric Anhydride	0	1	0	0	0	1
Calcium Hypochlorite	2	0	5	0	7	0
Chlorine	3	0	0	1	3	1
Chlorothalonil	0	1	2	0	2	1
Cinnamaldehyde	0	0	1	0	1	0
Copper Hydroxide	0	0	1	0	1	0
Copper Naphthenate	2	0	0	0	2	0
Cyanuric Acid	2	1	2	2	4	3
Cycloate	0	1	0	0	0	1
D-limonene	0	0	1	0	1	0
Dicofol	0	0	1	0	1	0
Diquat	0	0	0	2	0	2
Endothall	0	0	2	0	2	0
EPTC	0	0	0	1	0	1
Ethyl Alcohol	1	0	0	0	1	0
Glutaraldehyde	11	1	4	1	15	2
Glyphosate	2	3	11	3	13	6
Hydrogen Chloride	1	0	1	0	2	0
Imazalil	0	0	0	2	0	2
Imidacloprid	4	1	0	1	4	2
Iprodione	0	4	0	0	0	4
K Salts Of Fatty Acids	0	1	0	0	0	1
Lime-sulfur	0	0	1	0	1	0
MSMA	0	0	1	0	1	0
Magnesium Phosphide	1	0	0	0	1	0
Mancozeb	3	0	0	0	3	0
Mefenoxam	0	0	1	1	1	1
Mepiquat Chloride	0	1	1	0	1	1
Metaldehyde	0	1	0	0	0	1
Metam-sodium	6	1	2	1	8	2
Methyl Bromide	1	0	1	1	2	1
Methyl Iodide	0	0	1	0	1	0
Molinate	0	0	1	0	1	0

Pesticide ³	Systemic/ Respiratory ⁴		Topical ⁴		TOTAL	
	Definite/	Possible	Definite/	Possible	Definite/	Possible
	Probable	_	Probable	_	Probable	_
Neem Oil	0	0	1	0	1	0
Nonanoic Acid	0	0	0	1	0	1
Paraquat	0	2	0	0	0	2
Peroxyacetic Acid	1	0	1	1	2	1
Petroleum Distillates	0	0	1	0	1	0
Phenolic Disinfectants	1	0	5	1	6	1
Pine Oil	2	0	1	0	3	0
Propargite	2	1	1	1	3	2
Propiconazole	0	1	0	1	0	2
Quaternary Ammonia	3	2	39	2	42	4
Rimsulfuron	0	0	0	1	0	1
Sodium Hypochlorite	28	6	60	5	88	11
Strychnine	8	0	0	0	8	0
Sulfometuron Methyl	0	0	0	1	0	1
Sulfur	23	2	7	7	30	9
Sulfur Dioxide	0	1	3	0	3	1
Thiophanate-methyl	1	0	0	0	1	0
Trichloromelamine	0	0	3	1	3	1
Trifluralin	0	3	0	0	0	3
Ziram	0	0	1	0	1	0
Combinations of	23	1	8	1	31	2
Antimicrobials						
Combinations of Fumigants	10	4	1	0	11	4
Combinations of Fungicides	4	4	1	9	5	13
Combinations of Herbicides	2	3	2	2	4	5
Combinations of Insecticides	45	58	2	2	47	60
Including ChE Inhibitor(s)						
Combinations of Insecticides	26	6	9	3	35	9
Without ChE Inhibitor(s)						
Miscellaneous Combinations	17	19	5	10	22	29
Unknown Antimicrobials	5	0	5	0	10	0
Unknown Insecticides	6	1	1	0	7	1
Unknown Pesticides	3	2	3	0	6	2
TOTAL	422	183	215	73	637	256

¹ **Source:** California Department of Pesticide Regulation, Pesticide Illness Surveillance Program.

² **Associated With:** Includes cases classified as definitely, probably or possibly related to pesticide exposure

Definite : High degree of correlation between pattern of exposure and resulting symptomatology.

Requires both medical evidence (such as measured cholinesterase inhibition, positive allergy tests, characteristic signs observed by medical professional) and physical evidence of exposure (environmental and/or biological samples, exposure history) to support the conclusions.

Probable : Relatively high degree of correlation exists between the pattern of exposure and the resulting

symptomatology. Either medical or physical evidence is inconclusive or unavailable.

Possible : Some degree of correlation evident. Medical and physical evidence are inconclusive or

unavailable.

Systemic : Any health effects not limited to the skin and/or eye. Cases involving multiple illness

symptom types including systemic symptoms are included in the systemic category.

Respiratory : Health effects involving any part of the respiratory tree.

Topical : Health effects involving only the eyes and/or skin. This excludes outward physical signs

(miosis and lacrimation) related to effects on internal bodily systems. These signs are

classified under 'Systemic.'

Whom to Contact:

California Department of Pesticide Regulation

Worker Health and Safety Branch

Phone: (916) 445-4222.

Physical address: 1001 I St., Sacramento CA 95814-2828. Mailing address: P.O. Box 4015, Sacramento, CA 95812-4015

Fax: (916) 445-4280 www.cdpr.ca.gov

About the Pesticide Illness Surveillance Program Data

Pesticide-related illnesses have been tracked within the state of California for nearly 50 years. The California Environmental Protection Agency, Department of Pesticide Regulation (DPR) maintains a surveillance program which records human health effects of pesticide exposure. The Pesticide Illness Surveillance Program (PISP) documents information on adverse effects from pesticide products, whether elicited by the active ingredients, inert ingredients, impurities, or breakdown products. This program maintains a database, which is utilized for evaluating the circumstances of pesticide exposures resulting in illness. This database is consulted regularly by staff who evaluate(s) the effectiveness of the DPR pesticide safety programs and recommend changes when appropriate.

³ **Type of Pesticide:** Pesticides listed on this table are grouped according to frequent inquiries received by DPR. Other pesticides are then listed in alphabetical order.

⁴ **Type of Illness:** Categorization of the type of symptoms experienced.